

Application No. 10/086,142 Filing Date: February 28, 2002 Replacement Sheet

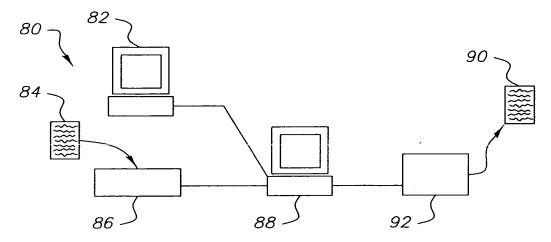


FIG. 1

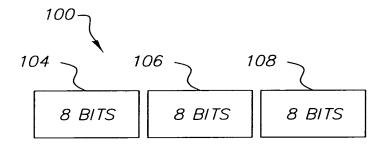


FIG. 3

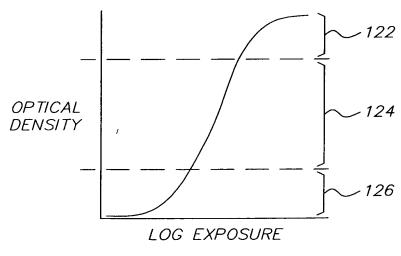


FIG. 4



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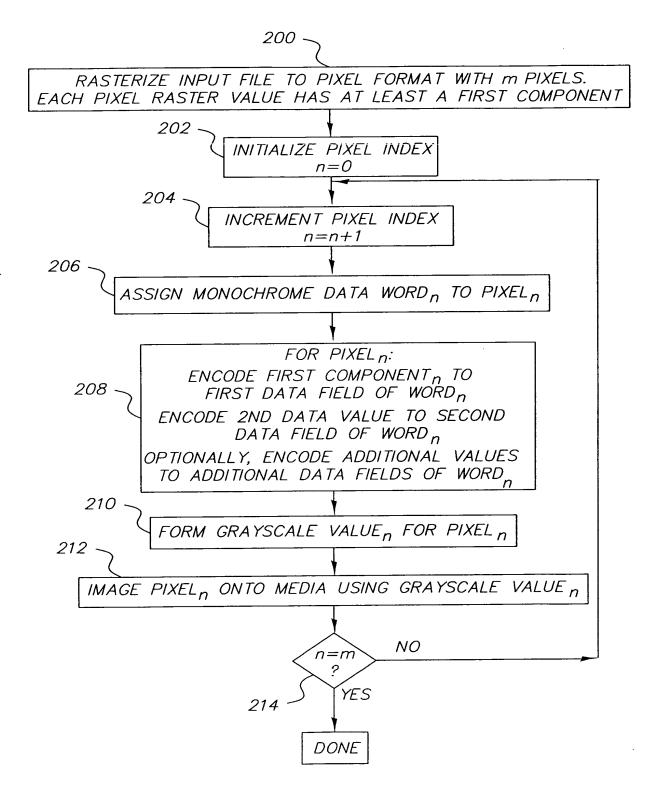
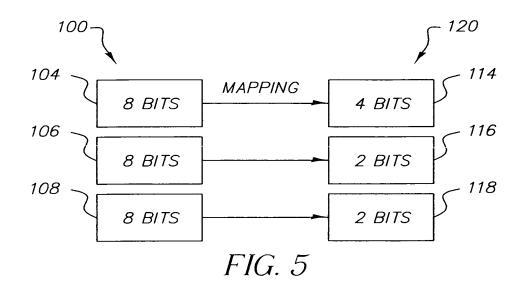


FIG. 2



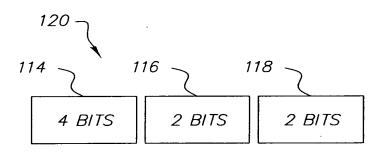
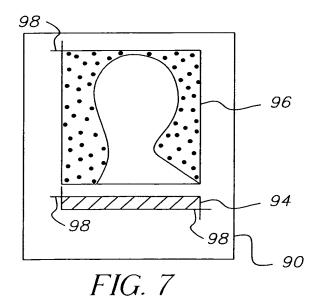


FIG. 6



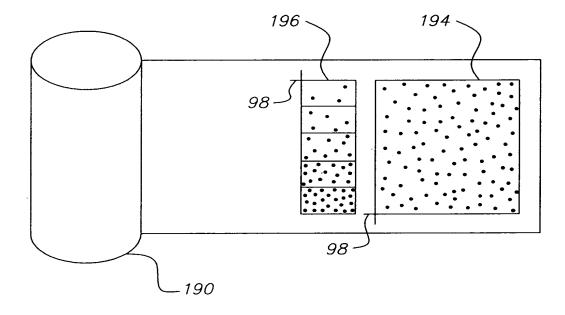
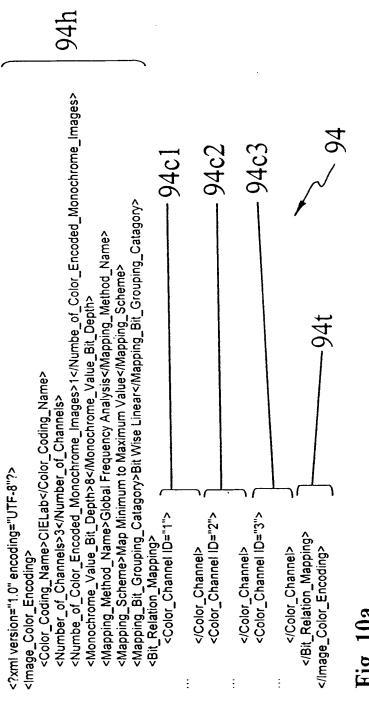


FIG. 8

```
<Color Encoding_Metadata>
    <Preservation_Media>
        < Media Read_Calibration>
            <Step Wedge Target Location>
                 <Frame Number>5
                 <Location_in_Frame>
                     <x>1 mm</x>
                     <y>1 mm</y>
                 </Location_in_Frame>
             </Step Wedge Target Location>
             <Step Wedge>
                 <Number_of_Density_Steps>3</Number_of_Density_Steps>
                 <Density_Step ID="1">
                     <Density_Value>.10/Density_Value>
                     <Size>3 x 3 mm</Size>
                 </Density_Step>
                 <Density_Step ID="2">
                                                                                    <sup>≥</sup> 194
                     <Density_Value>1.0</Density_Value>
                     <Size>3 x 3 mm</Size>
                 </Density_Step>
                 <Density_Step ID="3">
                     <Density_Value>2.0/Density_Value>
                     <Size>3 x 3 mm</Size>
                 </Density Step>
             </Step_Wedge>
         </Media_Read_Calibration>
         <Media Write Calibration>
             <Step_Wedge>
                 <Number_of_Density_Steps>3</Number_of_Density_Steps>
                 <Density_Step ID="1">
                     <Code_Value>0</Code_Value>
                 </Density_Step>
                 <Density_Step ID="2">
                     <Code_Value>128</Code_Value>
                 </Density Step>
                 <Density_Step ID="3">
                     <Code Value>255</Code Value>
                 </Density_Step>
             </Step Wedge>
         </Media Write Calibration>
    </Preservation Media>
    <Writer_Characteristics>
         <Spot Size>
             <Dot Pitch>3.3 microns/Dot_Pitch>
             <Dot_Width>6.0 microns</Dot_Width>
         </Spot Size>
         <In Track DPI>8000</In Track DPI>
         <Cross_Track_Pitch>3.3 microns</Cross_Track_Pitch>

<
 </Color Encoding_Metadata>
```



```
<Color_Channel ID="1">
  <Name>Lightness (L)</Name>
  <Number_of_Bits>4</Number_of_Bits>
  <Monocrome_Bit_Position>7,6,5,4</Monocrome_Bit_Position>
  <Most_Significant_Bit>7</Most_Significant_Bit>
  <lmage_Color_Channel_Value_Range>0 to 100</lmage_Color_Channel_Value_Range>
  <Mapping_Definition>
      <Channel Value min="0" max="5">
          <Encoded_Value>0</Encoded_Value>
          <Decode_Value>0</Decode_Value>
                                                                    94c1
      </Channel_Value>
      <Channel_Value min="6" max="11">
          <Encoded_Value>1</Encoded_Value>
          <Decode_Value>6</Decode_Value>
      </Channel_Value>
      <Channel_Value min="12" max="17">
          <Encoded_Value>2</Encoded_Value>
          <Decode_Value>12</Decode_Value>
      </Channel_Value>
      <Channel_Value min="18" max="25">
          <Encoded_Value>3</Encoded_Value>
          <Decode_Value>18</Decode_Value>
      </Channel_Value>
      <Channel_Value min="26" max="31">
          <Encoded_Value>4</Encoded_Value>
          <Decode_Value>26</Decode_Value>
      </Channel_Value>
      <Channel_Value min="32" max="37">
          <Encoded_Value>5</Encoded_Value>
          <Decode_Value>32</Decode_Value>
      </Channel_Value>
      <Channel_Value min="38" max="43">
          <Encoded_Value>6</Encoded_Value>
          <Decode Value>38</Decode Value>
      </Channel Value>
       <Channel_Value min="44" max="51">
       <Channel_Value min="52" max="57">
      <Channel_Value min="58" max="63">
       <Channel Value min="64" max="69">
       <Channel_Value min="70" max="77">
       <Channel_Value min="78" max="81">
          <Encoded_Value>12</Encoded_Value>
          <Decode_Value>81</Decode_Value>
       </Channel Value>
       <Channel_Value min="82" max="88">
           <Encoded_Value>13</Encoded_Value>
           <Decode_Value>88</Decode_Value>
       </Channel_Value>
       <Channel_Value min="89" max="94">
          <Encoded_Value>14</Encoded Value>
           <Decode_Value>94</Decode_Value>
       </Channel Value>
       <Channel Value min="95" max="100">
          <Encoded Value>15</Encoded_Value>
          <Decode Value>100</Decode_Value>
       </Channel_Value>
   </Mapping_Definition>
</Color_Channel>
```

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```
<Color_Channel ID="2">
   <Name>Chroma (a)</Name>
   <Number_of_Bits>2</Number_of_Bits>
   <Monocrome_Bit_Position>3,2</Monocrome_Bit_Position>
   <Most_Significant_Bit>3</Most_Significant_Bit>
   <Image_Color_Channel_Value_Range>113 to 195</image_Color_Channel_Value_Range>
   <!--Image Color Channel Range 113 to 195 maps to CIELab a* range -14 to 68 -->
   <Mapping_Definition>
       <Channel_Value min="113" max="132">
           <Encoded_Value>0</Encoded_Value>
           <Decode_Value>113</Decode_Value>
       </Channel Value>
       <Channel_Value min="133" max="153">
           <Encoded_Value>1</Encoded_Value>
           <Decode_Value>133</Decode_Value>
       </Channel_Value>
       <Channel_Value min="154" max="174">
           <Encoded_Value>2</Encoded_Value>
           <Decode_Value>174</Decode_Value>
       </Channel Value>
       <Channel_Value min="175" max="195">
           <Encoded_Value>3</Encoded Value>
           <Decode_Value>195</Decode_Value>
       </Channel Value>
    </Mapping_Definition>
</Color_Channel>
```

Fig. 10c

```
<Color_Channel ID="3">
   <Name>Chroma (b)</Name>
   <Number_of_Bits>2</Number_of_Bits>
   <Monocrome_Bit_Position>1,0</Monocrome_Bit_Position>
   <Most Significant_Bit>1</Most_Significant_Bit>
   <Image_Color_Channel_Value_Range>107 to 210</ir>
   <!--Image Color Channel Range 107 to 210 maps to CIELab b* range -20 to 83 -->
   <Mapping_Definition>
       <Channel_Value min="107" max="132">
          <Encoded_Value>0</Encoded_Value>
           <Decode_Value>107</Decode_Value>
                                                                      94c3
       </Channel_Value>
       <Channel_Value min="133" max="158">
          <Encoded_Value>1</Encoded_Value>
           <Decode_Value>133</Decode_Value>
       </Channel Value>
       <Channel Value min="159" max="184">
           <Encoded_Value>2</Encoded_Value>
           <Decode_Value>184</Decode_Value>
       </Channel_Value>
       <Channel_Value min="185" max="210">
           <Encoded_Value>3</Encoded_Value>
           <Decode Value>210</Decode Value>
       </Channel_Value>
   </Mapping Definition>
</Color_Channel>
```

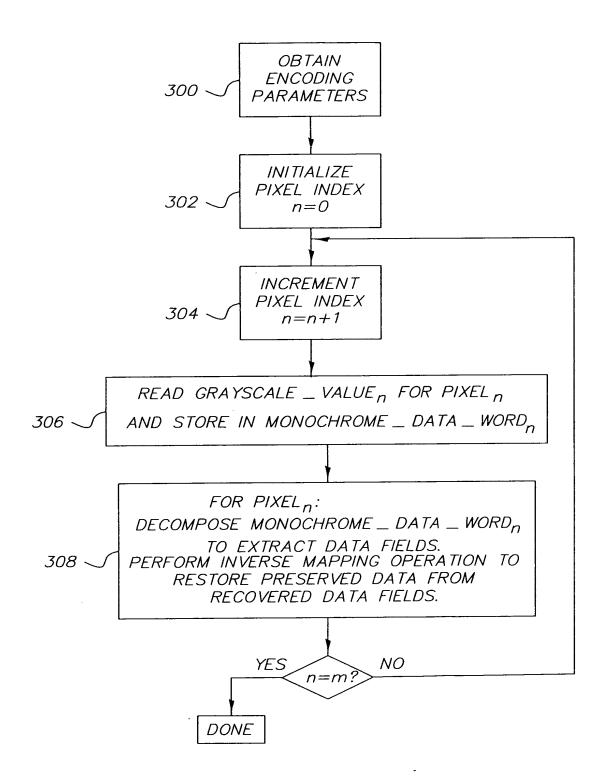


FIG. 11

